TRTILEK, J.,
J. V. DUBSKY, Chem. Obzor 9, 173-4, 189-9 (1934)

TRTILEK, J.
J. V. DUBSKY, Coll. Czech. Chem. Comm. 1935, 7, 311-315

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J. D. DUBSKY, Coll. Czech. Chem. Comm., 1935, 7, 1-9

TRUB, G., inzhener; DINES, S., inzhener; SHEVTSOV, N., inzhener.

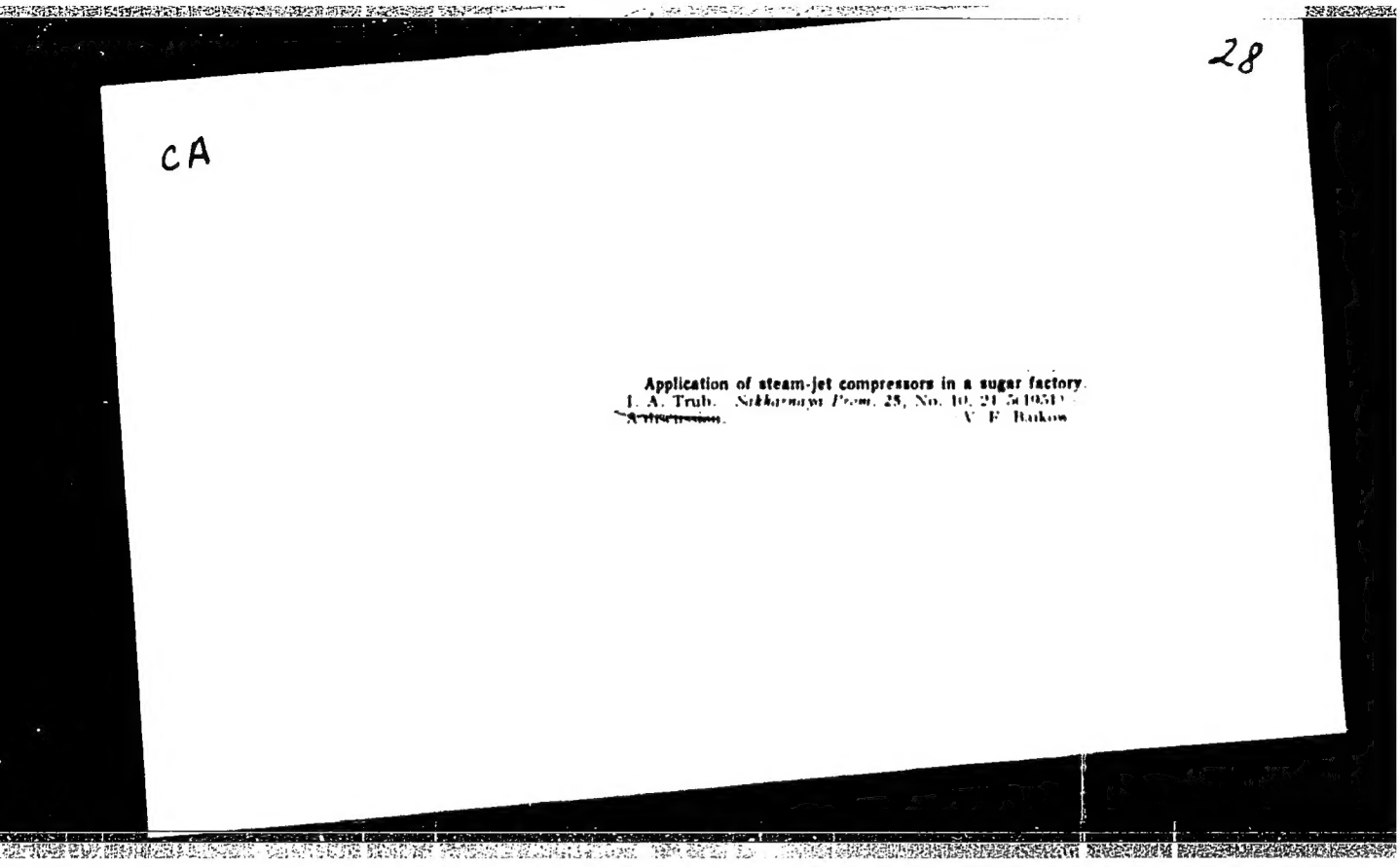
Standardization of labor and technological processes. Sots. trud no.12:69-76 D '56. (MLRA 10:2)

(Production standards)

TRUB, I.A.

P.M. Silin's method for regulating evaporation. Sakh. prom. 31 no.1: 44-47 Ja '57. (MLRA 10:4)

1. Srednesiatskiy politekhnicheskiy institut.
(Sugar industry)



28

CA

Application of steam-jet compressors in a sugar factory.
I. A. Trub. *Sakharnaya Prom.* 25, No. 10, 21-5(1951).
Abstract. V. F. Rukov

TRUB, Izrail' Ayzikovich, kand. tekhn. nauk; MUKHAMEDOV, U., red.; KOPITKOVA, N., tekhn. red.

[Atomic power plants] Atom elektrostantsiialari.[Atomnye elektrostantsii] Toshkent, "Kizii Uzbekiston," "Iravda Vostoka" va "Uzbekistoni Surkh" birlashgan nashrieti, 1958. 22 p. [In Uzbek] (MIRA 14:11)
(Atomic power plants)

TRUB, I.A., kand.tekhn.nauk

Vacuum type deaerators. Energ. i elektrotekh. prom. no.2:49-51 Ap-Je '65. (MIRA 18:8)

TRUB, I.A., kand.tekhn.nauk, dotsent

Design of countercurrent mixing condensers with overflow weirs.
Khim.mash. no.3:20-21 My-Je '61. (MIRA 14:5)
(Condensers (Vapors and gases))

TRUB, I.A., kand.tekhn.nauk, dots.

Design of countercurrent mixing condensers. Khim.mash. no.6:24-28 (MIRA 13:11)
N-D '60.

(Condensers (Steam))

TRUB, I.A., kand.tekhn.nauk; VASYANOVICH, I.F., inzh.; DANILETSKIY, A.P., inzh.

Technological indices of the operation of tunnel furnaces and dryers fueled by mazut. Stroi. mat. 8 no.2:25-27 F '62. (MIRA 15:3)

(Petroleum as fuel)

TRUB, I.A.

"Processes and machinery in sugar-beet manufacture" by S.F. Zhigalov. Sakh.prom. 34 no.7:77-78 Jl '60. (MIRA 13:7)
(Sugar manufacture)

TRUB, I.A.

Some characteristics of the operation of large limekilns. Sakh. prom. 33 no.6:35-37 Je '59. (MIRA 12:8)

1. Sredneaziatskiy politekhnicheskiy institut.
(Limekilns)

22(1)

SOV/3-59-5-9/34

AUTHOR: Trub, I.A., Candidate of Technical Sciences, Docent

TITLE: Our Readers Suggest

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 5, p 31 (USSR)

ABSTRACT: This suggestion also deals with organizing the teaching process of the senior courses. In the author's opinion the industrial training of students in the specialties of "Electric Power Plant" and "Thermal Installations of Electric Power Plants" should take place at the plants in 2 periods. The first one, lasting 5 months, is conducted after the 4th semester. The second practical training is performed after finishing the 8th semester, and in the course of 7 months the student familiarizes himself with the utilization of the plant's basic equipment - the boilers, turbines and electroeconomy. The most complicated and difficult task in organizing industrial training is to secure for the students

Card 1/2

Our Readers Suggest

appropriate jobs. These difficulties can be overcome if a certain number of enterprises are assigned to each vuz. While on practical training, the students must devote themselves entirely to the administration of the installation. The last pre-diploma industrial training could be devoted to gathering material for the diploma design.

ASSOCIATION: Sredneaziatskiy politekhnicheskiy institut (Central Asiatic Polytechnical Institute).

TRUF, I.A.

Regenerative heating of feed water in thermal power plants of sugar factories. Sakh. prom. 32 no. 7:36-39 Jy '58. (MIRA 11:8)

1. Srednesiatskiy politekhnicheskiy institut.
(Sugar industry)
(Feed water)

TRUB, I.A., dotsent.

Measures for improving the heating of cooking pans. Masl.-zhir. prom. 17 no.12:15-17 D '52. (MLRA 10:9)

1. Sredneaziatskiy politekhnicheskiy institut.
(Oil industries--Equipment and supplies)

TRUB, Izrail' Ayzikovich; MONOKROVICH, Eduard Isaakovich; MIKHAYLOVA, Ye.N., redaktor; PINKHASOV, Ya.B., tekhnicheskiy redaktor

[Using waste industrial heat in greenhouses and hothouses] Ispol'zovanie otbrosnogo tepla promyshlennosti v teplitsakh i parnikakh. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1955. 91 p. (MLRA 9:10)
(Greenhouses) (Heat engineering)

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement. H-26

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15932.

ing valve). It is noted that the advantages of this method are particularly evident under conditions of increased withdrawal of juice steam from 2nd and 3rd evaporation units and constant discharging of diffusion juice (90-115% of the weight of beets).

Card : 2/2

69180

S/143/60/000/03/011/020
D047/D002

Temperature Conditions of the Operation of a Steam Generator in an Atomatic Power Plant

kg/hour; $c_1 t_1$ - enthalpy of water leaving the generator, kcal/kg; $c_2 t_2$ - enthalpy of water entering the generator, kcal/kg. The author then gives calculations for the basic parameters of the generator and finds that those most favorable are: p = 48 atm, temperature of the feeding water - 143°C, minimum temperature pressure (δt) - 4.6°C. The author concludes that these values are not exhaustive. Ultimately the most advantageous parameters depend on the amount of capital expenditure and operational costs for steam generators and turbine installations as a whole. Reference is made to the work of R.Ye. Tsoller because his data is too high ($\delta t = 5.5 \div 16.7$ °C).
There are 1 graph, 2 tables and 6 Soviet references,

Card 2/3

69180

S/143/60/000/03/011/020
D047/D002

Temperature Conditions of the Operation of a Steam Generator in an Atomatic Power Plant

ASSOCIATION: Sredneaziatskiy politekhnicheskiy institut (Central Asian Polytechnic Institute)

PERIODICAL: October 15, 1959, by the Kafedra teplovykh ustanovok elektrostantsiy (Chair of Thermal Power Plant Equipment)

Card 3/3

TRUB, I.A., kandidat tekhnicheskikh nauk.

Preventing deposits in hydraulic ash-sluicing systems. (MLRA 9:10)
Elek.sta. 27 no.7:62-63 Jl '56.

(Electric power plants--Equipment and supplies)
(Ash disposal)

TRUB, I.A.

33979 TRUB, I.A. Pitaniye Parovykh Kotlov Povyshyennogo Davleniya Kondyensatom Sokovykh Parov Sakhar Prom-St, 1949, No. 11, S. 16-18

SO: Letopis' Zhurnal'nykh Statey, Vol. 42, Moskva, 1949

TRUB, I.A.

AUTHOR: Trub, I. A.

TITLE: The Regenerative Preheating of Water in a Water-Cooled Power Reactor (Temperatura regenerativnogo podogreva vody na atomnoy elektrostantsii s reaktorom, okhlazhdayemym vodoy)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 286 - 288 (USSR)

ABSTRACT: The economy of a heterogeneous pressurized water reactor is still uncertain. First of all the problem of the most suitable water preheating temperature in the secondary cycle of the regenerative cycle has not yet been solved.
The contradicting results of references 4 and 5 can be explained by different criteria which are adopted as typical for the economy of a power reactor.
The connection between the regenerative water preheating temperature and other parameters of the power reactor are theoretically deduced. There are 1 figure, and 6 references, 1 of which is Slavic.

Card 1/2

89-3-11/33

The Regenerative Preheating of Water in a Water-Cooled Power Reactor

SUBMITTED: June 26, 1956 (?)

AVAILABLE: Library of Congress

1. Water-Regenerative preheating-Power reactor-Water cooled type reactor
2. Theoretical analysis

Card 2/2

TRUB, I.A., kand.tekhn.nauk

Experience in the operation of vacuum evaporation stations.
Prom.energ. 15 no.4:31-32 Ap '60. (MIRA 13:6)
(Evaporating appliances)

TRUB, I.A., dotsent

"Modernizing small capacity steam boilers." K.F.Roddatis, IU.S.Rubinov. Reviewed by I.A.Trub. Energetik 2 no.2:37-38 F '54. (MLRA 7:4)
(Steam boilers) (Roddatis, K.F.) (Rubinov, IU.S.)

TRUB, I.A.

Use of steam-jet compressors. Sakh.prom. 28 no.1:29-30 '54.
(MLRA 7:3)
(Compressors)

TRUB, I.A.

State of the vapor from a concentrated sugar solution boiling under vacuum. Izv. vys. ucheb. zav.; pishch. tekh. no.4:134-135 '63. (MIRA 16:11)

1. Donetskiy filial instituta teploenergetiki AN UkrSSR, otdel promyshlennoy teplotekhniki.

TRUB, I.A., kand.tekhn.nauk

Intensification of the heat transmission in tubular coolers. Koks i khim. no.9:52-53 '63. (MIRA 16:9)

1. Donetskiy filial Instituta teploenergetiki AN UkrSSR.
(Coke-oven gas--Cooling) (Heat--Transmission)

TRUB, I. A. (Institute of Mining of Academy of Sciences of Ukrainian SSR)

"About analytic investigations of thermal processes in cascade condensors of mixing."

Report presented at the Section on Heat Exchange During Change of Aggregate State, Scientific Session, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 April 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 1963, p. 321, JPRS 24,651. 19 May 1964.

TRUB, I.A.; OVENKO, F.A.; KHALABUZAR', A.T.

Thermal calculations of coke-oven gas cooling systems. Zbir. prats' Inst. tepl. AN URSR no.24:53-61 '62. (MIRA 16:3)
(Coke-oven gas—Cooling)

TRUB, I.A.

"Heat-generating plants and equipment of sugar factories" by M.S. Gurevich, P.D.Fedorov. Reviewed by I.A.Trub. Izv.vys.ucheb.zav.; pishch.tekh. no.1:158-160 '63. (MIRA 16:3)
(Heat engineering) (Sugar industry—Equipment and supplies)
(Gurevich, M.S.) (Fedorov, P.D.)

TRUB, I.A., kand. tekhn. nauk

Universal graph for converting the values of basic units from an engineering system into the international system of units GOST 9867-61. Teploenergetika 11 no.8:94 Ag '64. (MIRA 18:7)

1. Donetskiy filial Instituta teploenergetiki AN UkrSSR.

[illegible], A.A., [illegible]; [illegible], V.I., inzh.; [illegible], L.A., inzh.

Principal characteristics of the operation of a vacuum-type deaerator jet column. Teploenergetika 12 no.6:14-18 Je '65. (MIRA 18:9)

1. Makeyevskiy metallurgicheskiy zavod.

TRUB, I.A., kand. tekhn. nauk

Determination of the profitability of vacuum type deaerators. Prom. energ. 20 no.9:32-33 S '65. (MIRA 18:9)

TRUB, Izrail' Ayzikovich; [illegible]TITSKIY, V.A., inzh., retsenzent; KHEYEL'NITSKAYA, A.N., red.

[Mixing cascade condenser] Kaskadnye kondensatory smeshenia. Moskva, Izd-vo Mashinostroenie, 1964. 104 p. (MIRA 17:6)

TRUB, Menashe Shalimovich; DOBSHITS, M.L., inzh., red.

[Electrodeless method of electric curing of concrete and reinforced concrete elements; practices of enterprises of the construction industry of the Murmansk Economic Council] Bezelektrodnyi metod elektroprogreva betonnykh i zhelezobetonnykh izdelii; iz opyta predpriiatii stroitel'noi industrii Murmanskogo sovnarkhoza. Moskva, Gosstroiizdat, 1962. 11 p. (MIRA 17:2)

1. Starshiy inzhener Proyektno-konstruktorskoy kontory Glavnogo upravleniya po proizvodstvu stroitel'nykh detaley i nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Trub).

TRUB, I.I., inzh.

Safety measures in servicing complex 6-10 kv. power distribution systems. Prom. energ. 19 no.11:20 N '64. (MIR 18:1).

TRUB, S.

State Farms - Ukraine

Utilization of petroleum products on state farms of the Ukrainian SSR. Za ekon. mat. no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

TRUB, S.

Ukraine - State Farms

Utilization of petroleum products on state farms of the Ukrainian SSR.
Za ekon.mat. No.2, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

TRUB, S.

Petroleum as Fuel

Utilization of petroleum products on state farms of the Ukrainian SSR1 Za ekon. mat. No. 2 A '52.

Monthly List of Russian Accessions, Library of Congress. December 1952. Unclassified.

TRUBA, B.I., inzh.

Failures of roofing joints of industrial buildings near longitudinal expansion joints and possible ways to eliminate them. Trudy Ural. politekh.inst. no.109:107-112 '61. (MIRA 14:7)
(Roofs)

TRUBA, B.I., inzh.

Snow drift formation near clerestories of gabled roofs of unheated industrial buildings in the Urals. Trudy Ural.politekh.inst. no.109: 118-128 '61. (MIRA 14:7)

(Ural Mountain region—Snow)

TRUBA, B.I., inzh.

New design of the head of interior leaders of the roofs of industrial buildings. Trudy NII prom. zdan. i soor. no.2: 57-62 '61. (MIRA 15:6)

(Industrial buildings) (Plumbing)

TRUBA, B.I., inzh.

Efficient structural solutions of neck gutters of roofs of industrial buildings. Trudy NII prom.zdan.i soor. no.5:25-45 '61. (MIRA 15:4)

(Gutters)

TRUBA, B.I., inzh.

Defects in roofs of industrial buildings made of KAP (large reinforced lightweight concrete) panels. Stroi.prom. 36 no.4:11-13 Ap '58. (MIRA 11:4)

1. Ural'skiy politekhnicheskiy institut.
(Roofing, Concrete)

TRUBA, B.I., inzh.

Design, erection and use of roofs of industrial buildings under conditions prevailing in the Ural Mountains. Prom. stroi. 40 [i.e. 41] no.4:8-13 Ap '63. (MIRA 16:3)

1. Ural'skiy politekhnicheskiy institut.
(Ural Mountains--Roofs)

JADRNY,J.; TOUBAC, I.

Technical methods and organizational problems for providing anesthesiological care in obstetrical-gynecological departments. Cesk. gynek. 29 no.9:677-682 N '64

1. Okresni nemocnice v Karlovych Varech.

SHIFRIN, I.A.; ROZHKOV, F.V.; TRUBA, I.V.

Vaccination of sheep against Q fever. Zhur. mikrobiol. epid. i immun. 29 no.8:97-101 Ag '58. (MIRA 11:10)

(Q FEVER, prev. & control.
vacc. of sheep (Rus))
(SHEEP, dis.
Q fever, vacc. (Rus))

SMIRNOV, F.Ye., veterinarnyy vrach; TRUBA, I.V., veterinarnyy vrach.

Preservation of blood serum of horses with boric acid for purposes of investigation of trypanosomiasis. Veterinariia 30 no.9:31-33 S '53. (MLRA 6:8)

TRUBA, M.Sh., inzh.

Making concrete foundation blocks using electric heating without electrodes. Suggested by M.Sh.Truba. Rats.i izobr.predl. v stroi. no.11:6-9 '59. (MIRA 13:3)

1. Monchegorskoye stroitel'noye upravleniye Nikel'stroy tresta Kol'stroy.
(Concrete blocks) (Electric heating)

PANASYUK, V.G.; REPKA, V.P.; PANASYUK, L.V.; TRUBA, T.I.

Preparation of furfural and other chemicals from plant wastes.
Report No.1: Experiments in the laboratory and industrial units.
Gidroliz. i lesokhim.prom. 13 no.5:6-7 '60. (MIRA 13:7)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut.
(Furaldehyde)

HONICH, Pavel; TRUBAC, Karel, inz.

Individual methods of separating mixtures of potatoes, clods, and stones, and comparison with respect to their separation efficiency. Zemedel tech 11 no.1:43-58 Ja '65.

1. Research Institute of Agricultural Machines, Chodov near Prague. Submitted September 14, 1964.

THUBAC, I.

Pharmacological control of pain in labor. Cesk. gynek. 29 no.9:645-648 N '64

1. Gyn.-por. odd. okresni nemocnice v Karlovykh Varech (vedouci MUDr. V.Jurcikova).

DERESHKEVICH, Yu.V., inzh.; YEVSEYEV, A.V., inzh.; ROMOV, I.V., inzh.; TRUBACHEV, I.A., inzh.; BYKOVA, M.F., inzh., nauchn. red.

[Safety engineering instructions for carrying out anti-corrosion operations] Instruktivnye ukazaniia po tekhnike bezopasnosti pri proizvodstve antikorroziinykh rabot. Moskva, Stroiizdat, 1965. 85 p. (MIRA 18:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye teplotekhnicheskikh i termoizolyatsionnykh rabot.

TRUBACHEV, I.I.; ANTIPIN, I.N.; VAZHENIN S.F.; KHYMOV, A.I.; VLASKHOVETS, V.P.

Adjusting the electrolyte of an aluminum bath with a liquid melt. TSvet. met. 38 no.8:52 66 Ag '65. (MIRA 18:9)

TRUBACHEV, I.Ye.

Economics of production shops under the new conditions. Zhel. dor. transp. 47 no.3:65-69 Mr '65. (MIRA 18:5)

1. Zamestitel' nachal'nika Planovo-ekonomicheskogo upravleniya Ministerstva putey soobshcheniya.

TRUBACHEV, V.I.

Postoperative thrombosis and embolism. Vest. khir. 94 no.2: 36-43 F '65. (MIRA 18:5)

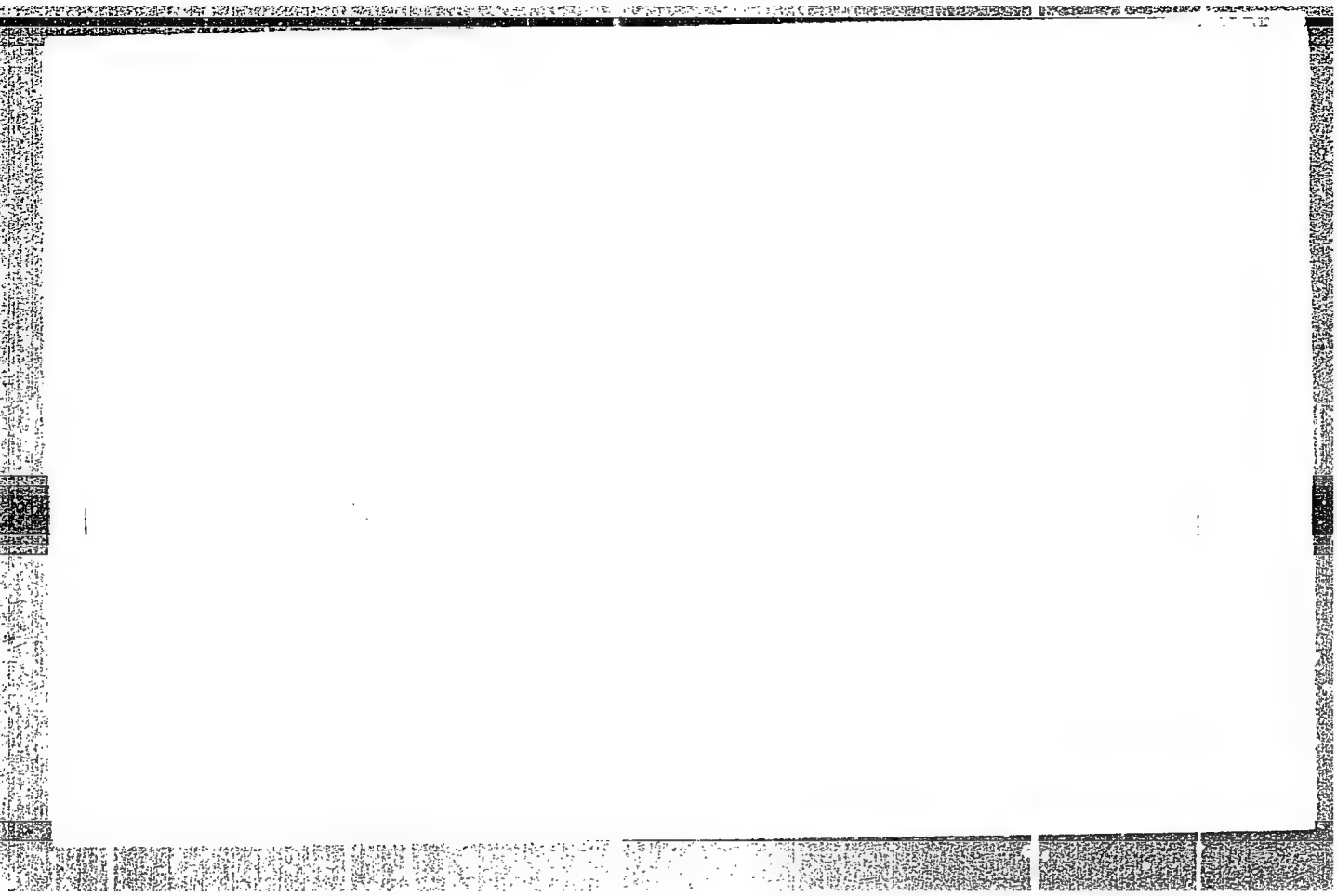
1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I. Blinov) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni Kirova.

TRUBACHEVA, L.P.

Clinical aspects and treatment of traumatic lesions of peripheral nerves in children. Zhur. nevr. i psikh. 65 no.7:1028-1031 '65. (MIRA 18:7)

1. Nervnoye otdeleniye (zav. R.B.Sheydina) i travmatologicheskoye otdeleniye (zav. L.M.Ivashko) Leningradskoy detskoy bol'nitsy imeni Raukhfusa (glavnyy vrach Ye.I.Knyazeva).

TOPIC TAGS: vacuum sublimat[illegible] distillation was designed: the first



L 40782-66 EWT(l)/EWT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW
ACC NR: AP6018611 SOURCE CODE: UR/0420/65/000/004/0107/0109

AUTHOR: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Gurov, V. M.; Trubchaninov, F. N.; Kirichenko, R. F.; Fomenko, F. I.

ORG: Kharkov Aviation Institute (Khar'kovskiy aviatsionnyy institut)

TITLE: Investigation of an electrohydraulic source and some of its potential applications

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 4, 1966, 107-109

TOPIC TAGS: electrohydraulic effect, shock wave, electric discharge

ABSTRACT: The authors describe a highly efficient coaxial electrohydraulic source for industrial use. A diagram of the device is shown in figure 1. The annular aluminum electrode 2 is fastened to textolite base 1 by bolts. Stainless steel electrode 3 is fastened to the base inside the aluminum electrode and located on its central axis. Voltage is fed to the annular and central electrodes from a battery of condensers through a controllable discharger. The electrical discharge between the electrodes develops in the form of individual spark channels. A schematic diagram of the experimental unit used for testing the source is shown in figure 2.

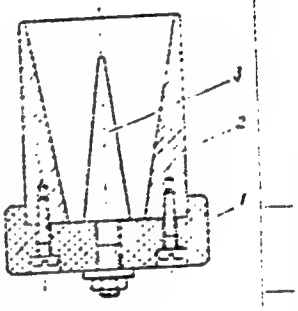


Figure 1

Card 1/3

L 40782-66
ACC NR: AP6018611

Voltage from regulator *1* is fed through step-up transformer *2* and high-voltage rectifier *3* to condenser battery *5* with a total capacitance of 6 μf. The charging voltage is monitored on electrostatic kilovoltmeter *6*. The current in the discharge circuit is registered by a low--inductance Rogowski loop with an integrating circuit connected in the coaxial cable. The signal from this integrating circuit is fed to one channel of an oscillograph. A capacitance signal from the voltage divider is fed to the second channel of the oscillograph through a 75 Ω impedance matching resistor. Analysis of the oscillograms shows that the cyclic frequency of the discharge is 925 Kc while the inductance of the discharge circuit is 0.2 μh. The current amplitude of the discharge reaches 16 Ka when 10 Kv is applied to the condenser plates. Water velocity is a linear function of discharge voltage with the approximate equation $W=4V+1$, where W is water velocity in m/sec and V is voltage in Kv. At a distance of 3 m

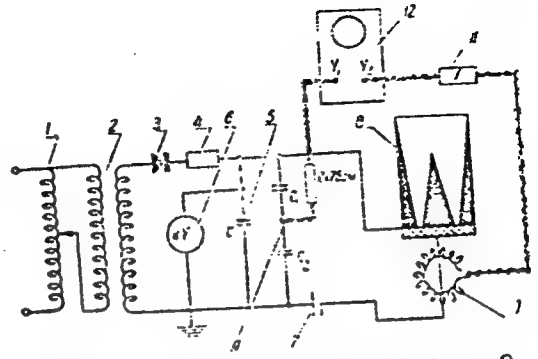


Figure 2: 1--voltage regulator; 2--step-up transformer; 3--20 Kv high--voltage rectifier; 4--60 KΩ discharge resistor; 5--IM-50-3 condenser battery; 6--S-96 kilovoltmeter; 7--discharger; 8--electrohydraulic source; 9--D6-2 voltage divider; 10--Rogowski loop; 11--integrating circuit; 12--OK-17M double beam oscillograph

Card 2/3

L 40782-66

ACC NR: AP6018611

C

from the source, the cross sectional area of the water stream is no more than three times that of the source. Orig. art. has: 4 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 007

20/

Card 3/3 mlcl

SINEL'NIKOV, K.D.; SAFRONOV, B.G.; SIDORKIN, V.A.; TRUBCHANINOV, S.A.

[Motion of plasma clots across a magnetic field] Dvizhenie plazmennykh sgustkov poperek magnitnogo polia. Khar'kov, Fiziko-tekhn. in-t AN USSR, 1960. 183-200 p. (MIRA 17:3)

ACC NR: AP6020076 SOURCE CODE: UR/0016/66/000/006/0008/0013

AUTHOR: Trubchaninov, M. P.; Belinskiy, V. M.

ORG: none

TITLE: Etiological characteristics of bacterial dysentery in the Transbaikal

SOURCE: Zh mikrobiol, epidemiol i immunobiol, no. 6, 1966, 8-13

TOPIC TAGS: human disease, dysentery, disease etiology, Flexner bacteria, bacterial disease

ABSTRACT:
With the acceptance of the Flexner species and subspecies within the Shigella genus, tables of the relative importance of the various groups have been revised. Flexner bacilli are the principal agents of bacillary dysentery in the Transbaikal. The Grigoriyev-Shiga species lost its former etiological significance. The species composition of dysentery bacteria from year to year, the prevalence of the Flexner bacilli over all other subspecies of dysentery bacteria.

[W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 06Jul64/ ORIG REF: 004/

UDC: 616.935-02+576.851.49.01] (571.55)

Card 1/1

L 11411-67 EWT(1)
ACC NR: AP6031269 SOURCE CODE: UR/0057/66/036/009/1652/1664

AUTHOR: Khizhnyak,N.A.; Kalmykov,A.A.; Trubchaninov,S.A.; Naboka,V.A.

ORG: none

TITLE: On the adiabaticity of the motion of plasma bursts in longitudinal magnetic fields

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 9, 1966, 1652-1664

TOPIC TAGS: hydrogen plasma, dense plasma, rarefied plasma, plasma dynamics, adiabatic process, plasma magnetic field, nonhomogeneous magnetic field, magnetic moment

ABSTRACT: This paper is concerned with the motion of plasma bursts along the axis of a longirudinally inhomogeneous axially symmetric magnetic field. The pliant current-loop model, developed in a series of articles by N.A.Khizhnyak, V.G.Safronov, and K.D.Sinel'nikov (Sb. "Fizika plazmy i problemy upravlyayemogo termoyadernogo sinteza", t.I. Izd-vo AN UkrSSR, Kiyev, 1963; ibid. t. II, 1964; ZhTF, 35, 827, 1965; ZhTF, 35, 833, 1965), is generalized to take into account changes in the shape of the plasma. Equations of motion are derived under the simplifying assumptions that the deformation of the plasma is small, the plasma remains spheroidal (but may become either prolate or oblate), and the thermal expansion of the plasma during its interaction with the magnetic field is negligible. Particular attention is given to the magnetic moment of the plasma burst as a criterion of the adiabaticity of its motion. For a low density

UDC: 533.9

Card 1/3

L 11421-67
ACC NR: AP6031269

plasma, the equations of the generalized pliant current loop model reduce to those of the independent particle model and the magnetic moment should remain constant as long as the usual adiabaticity condition is met. The magnetic moment of a dense plasma, on the other hand, should increase as the plasma moves into regions of higher magnetic field strength until it encounters a magnetic field of a critical strength, when the plasma should collapse and its magnetic moment should decrease rapidly. The theoretical predictions were tested experimentally. Hydrogen plasma bursts from a coaxial plasma gun, after traversing a 1 m long drift tube, entered the field of a series of six 17 cm long 8 cm inner diameter direct current solenoids, each capable of producing a 10 kOe field. The magnetic moments of the plasmas were measured with the aid of an external loop and internal magnetic probes that could be adjusted in the radial direction. The densities of the plasmas were determined with a shielded electrical probe, by cutoff of 3 and 0.8 cm microwaves, and with a 3 cm wavelength interferometer. The plasmas were found to behave in accordance with the theory. In particular, the magnetic moments of the plasmas with densities below 10^{12} cm^{-3} remained constant until fields of the critical strength were encountered and then decreased monotonically and fairly rapidly, whereas the magnetic moments of the plasmas with densities above 10^{14} cm^{-3} increased as the plasmas moved into regions of higher field strength, even though the independent particle adiabaticity condition was better satisfied by the high density plasmas than by the low density ones. It is concluded that the generalized current loop model provides a rather good approximate description of the behavior of plasma bursts. The work of several other investigators is discussed in the light of the present theory, and it is concluded that the plasma entrapment mechanism proposed

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by J.L.Tuck (Phys. Rev. Lett., 3, 317, 1959) can be effective only under such conditions that the plasma traverses the magnetic field gradient region in a time shorter than the collapse time of the plasma, which is approximatoly the ratio of the plasma circumference to the Alfven velocity. The authors thank B.G.Safronov,V.S.Komel'kov, and Academician K.D.Sinel'nikov of the AN UkrSSR for fruitful discussions. Orig. art. has: 38 formulas and 7 figures.

SUB CODE: 20 SUBM DATE: 04Sept65 ORIG. REF: 011 OTH REF: 008

Card 3/3 bab

L 05787-67 EWT(1) IJP(c) AT

ACC NR: AT6033190 SOURCE CODE: UR/3137/65/000/270/0001/0020

AUTHOR: Khizhnyak, N. A.; Kalmykov, A. A.; Trubchaninov, S. A.; Naboka, V. A.

54
57
B+1

ORG: none

TITLE: On the adiabatic movement of plasma beams in a longitudinal magnetic field

SOURCE: AN UkrSSR. Fiziko-tekhnicheskiy institut. Doklady, no. 270/R057, 1965. K voprosu ob adiabatichnosti dvizheniya plazmennykh sgustkov v prodol'nom magnitnom pole, 1-20

TOPIC TAGS: plasma beam, longitudinal magnetic field, plasma density

ABSTRACT: The author discusses the entry mechanism of small plasma beams into an axially symmetrical magnetic field, depending on the particle density in the beam. The deductions from the theory are compared with an experimental study of magnetic moments of low- and high-density plasma beams. The experiments are found to agree with the theory on the substantial influence of plasma density on the magnetic moment of the plasma beam, and with the theory of the

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ACC NR: AT6033190

dynamic interaction of beams with an axially symmetrical magnetic field. The model of a generalized current loop used in calculations can therefore be considered a satisfactory approximation of the description of plasma beams. In conclusion, the authors express their deep gratitude to K. D. Sinel'nikov, academician of the AN USSR, and to B. G. Safronov and V. S. Komel'kov for fruitful discussions which stimulated this work in many ways. Orig. art. has: 7 figures and 30 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 013/ OTH REF: 006/

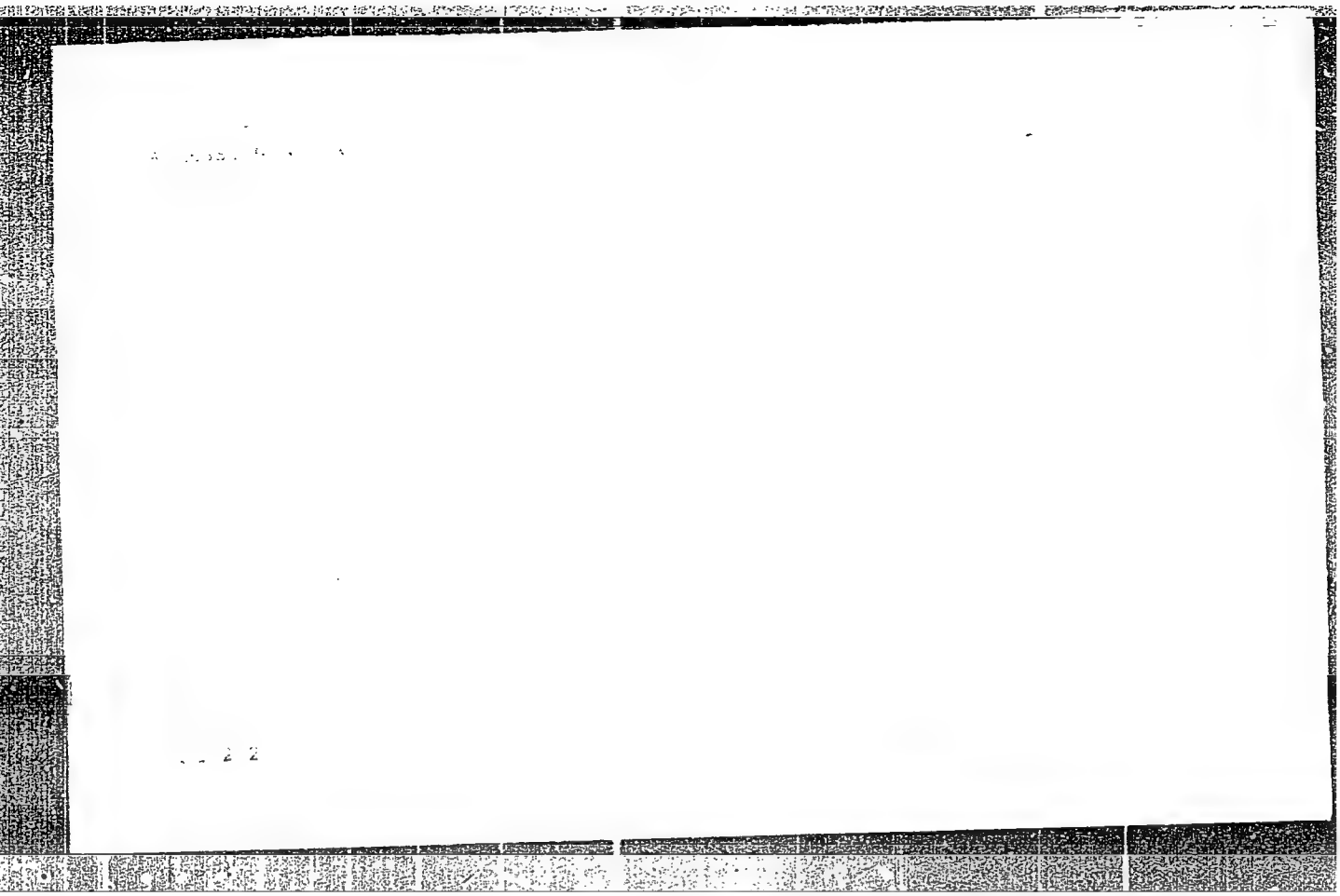
Card 2/2 egh

P1-4 IJP(c) AT S/0057/65/035/001/0164/0172

ACCESSION NR: AP5003259

64
4B

AUTHOR: Kalmykov, A.A./ Trubchaninov, S.A./ Naboka, V.A.



GINEVICH, A.A.; [illegible]

Reduction of nitrite in ammonia induced by ascorbic acid.
Dokl. AN SSSR 157 no. 2:467-468 Jl '64. (MIRA 17:7)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR. Predstavlen akademikom N.M.[illegible]sakyanom.

GUREVICH, A.A.; TRUBACHEV, I.N.; KHRENG, M.S.

Effect of hydrogen peroxide on the reduction of nitrates in a green plant. Dokl. AN SSSR 156 no. 2:457-460 My '64. (MIRA 17:7)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR. Predstavlena akademikom N.M.Sisakyanom.

NIKONOV, V.A., red.; TRUBACHEV, O.N., red.

[Principles of toponymy] Printsipy toponimiki. Moskva, Izd-vo "Nauka," 1964. 150 p. (MIRA 17:5)

1. Soveshchaniye "Printsipy toponimiki," Moscow, 1962.

TRUBACHEV, V.I. (Leningradskaya oblast', stantsiya Sablino, Yuzhnaya ulitsa, dom 24)

Postoperative thromboembolic complications in osteoarticular tuberculosis. Vest. khir. 91 no.9:112-113 S'63. (MIRA 17:4)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza (nauchnyy rukovoditel' - prof. P.G. Kornev).

TRUBACHEV, V.I.

Surgical intervention in hemophilia. Khirurgiia 39 no.8:80-82 Ag '63. (MIRA 17:6)

1. Iz 3-y khirurgicheskoy kafedry (zav.- prof. N.I. Blinov) Gosudarstvennogo ordena Lenina instituta dlya usovershenstvovaniya vrachey imeni S.M. Kirova i Leningradskogo instituta khirurgicheskogo tuberkuleza.

TRUBACHEV, V.I.

Surgical treatment of thrombophlebitis of the lower extremities. Vest.khir. 70 no.6:126-130 Je'63 (MIRA 16:12)

1. Iz 3-y khirurgicheskoy kliniki (zav. - prof. N.I.Blinov) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni Kirova. Adres avtora: Leningrad, ul. Saltykova-Shchedrina d.41 Gosudarstvennyy institut dlya usovershenstvovaniya vrachey, 3-ya khirurgicheskaya klinika.

TRUBAN, M.

Production of radioisotopes in linear accelerators. Jaderna energie 4 no.7:200-202 Jl '58.

TRUBAYEVA, L.N.

Late results following interilioabdominal amputation in osteogenic sarcoma of the hip. Khirurgiia 39 no.5:120-121 My '63. (MIRA 17:1)

1. Iz onkologicheskogo otdeleniya (zav. I.B. Akayevskiy) Respublikanskoy bol'nitsy (glavnyy vrach N.B. Mironova) Chechano-Ingushskaya ASSR.

MIKHAYLOV, Yu.I.; SAGUYCHENKO, I.K.; SYCHEV, K.P.; TRUBCHANINOV, I.D.

Electrotensiometer for studying the parts of conveying apparatus. Sbor. nauch. trud. KGRI no.19:117-123 '62. (MIRA 16:5)

(Conveying machinery—Testing) (Tensiometers)

KALMYKOV, A.A.; [illegible]CHANINOV, S.A.; NADOEV, V.A.

Development of instability in a plasma clot moving in a longitudinal magnetic field. Zhur. tekh. fiz. 35 no.1:169-172 Ja '65. (MIRA 18:3)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

S/781/62/000/000/022/036

AUTHORS: Sinel'nikov K. D., Safronov B. G., Sidorkin V. A. Trubchaninov, S. A.

TITLE: Motion of plasmoids transversely to a magnetic field

SOURCE: Fizika plazmy i problemy upravlyayemogo termoyadernogo sinteza; doklady I konferentsii po fizike plazmy i probleme upravlyayemykh termoyadernykh reaktsiy. Fiz.-tekhn. inst. AN Ukr.SSR. Kiev, Izd-vo AN Ukr. SSR, 1962. 108-111

TEXT: A separate study was made of plasma polarization and drift of plasmoids in a magnetic field. The polarization of the plasma was investigated in a homogeneous magnetic field by means of the usual Langmuir probes. This was followed by a study of the plasma behavior in inhomogeneous magnetic fields with different gradient directions. The plasmoids were injected from a space in which the magnetic field was close to zero. A magnetic field configuration of the ordinary trap type and of the picket-fence type could be produced by means of a system of coils. The plasma distribution was measured with screened probes. The measurements have shown that the ionic component of the plasma concentrates near regions where the magnetic field is close to zero, where the maximum particle numbers are

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likewise concentrated. The magnetic traps were also studied with respect to their plasma-retention ability. It was found that a picket-fence type of trap retains plasma five times longer than an ordinary one. There are six figures. Three out of the four references are in English and deal with the work done by Bostick et al.

KALMYKOV, A.A.; TERESHIN, V.I.; TRUBCHANINOV, S.A.; SAFRONOV, B.G.

Interaction between plasma clots and a spacially periodical magnetic field. Zhur.tekh.fiz. 32 no.5:579-583 My '62. (MIRA 15:7)

(Plasma (Ionized gases)) (Magnetic fields)

TRUBCHANNIKOV, M.M. (Moskva)

Legal control of the work of a sanitary feldsher at a rural district hospital. Fel'd. i akush. 27 no.1:59-61 Ja '62. (MIRA 15:3)
(MEDICAL PERSONNEL)
(MEDICINE, RURAL)

TRUBCHANNIKOV, M.M., yurist; SMIRNOVA, M.N., yurist (Moskva)

Regulating unemployment pay for temporary loss of working capacity. Fel'd.i akush. 27 no.7:60-62 Jl '62. (MIRA 15:9)
(INSURANCE, UNEMPLOYMENT) (ABORTION)

KRAYNIY, K.I.; POLYAKOV, V.T.; TRUBACHEV, B.V.

Automatic maintenance of a d.c. generator voltage by means of a saturation choke. Prom.energ. 15 no.5:23-25 My '60. (MIRA 13:7)
(Automatic control) (Electric generators)

TRUBACHEV, I.

Patriotic activities. Sov.shakht. 11 no.4:6 Ap '62. (MIRA 15:3)

1. Predsedatel' komiteta profsoyuza shakhty No.7-8 tresta Krasnoluchugol'.

(Trade unions)
(Coal mines and mining--Labor productivity)

ACCESSION NR: AP4036729 S/0020/64/156/002/0457/0460

AUTHOR: Gurevich, A. A.; Trubachev, I. N.; Rerberg, M. S.

TITLE: On the effect of hydrogen peroxide on nitrate reduction in green plants

SOURCE: AN SSSR. Doklady*, v. 156, no. 2, 1964, 457-460

TOPIC TAGS: nitrate reduction, hydrogen peroxide, algae, chlorella, nitrate, ammonia, amination, nitrogen, biosynthesis

ABSTRACT: The authors investigated whether an external introduction of a physiologically admissible concentration of hydrogen peroxide, under certain conditions, would affect nitrate reduction in a plant and, so, produce an increase in ammonia formation. The experimental subjects were one-celled green algae (chlorella vulgaris, a thermophylic variant). From some of the experimental results, it was shown that the addition of hydrogen peroxide to the nitrate solution, under either night or daylight conditions, increased ammonia production from the plant to the surrounding environment by an average of more than 1-1/2 times. When the nitrogen was depleted, however, the chlorella did not give off ammonia. It was concluded, therefore, that for green plants, the biosynthesis of albuminous matter from nitrates was accomplish-

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ACCESSION NR: AP4036729

ed with the assistance of the induced reduction reaction. Orig. art. has: 2 tables

ASSOCIATION: Institut fiziki. Sibirskogo otdeleniya. Akademii nauk SSSR (Institute of Physics, Siberian Branch, Academy of Sciences SSSR)

SUBMITTED: 04Sep63 DATE ACQ: 16Jun64 ENCL: 00

SUB CODE: LS NO REF SOV: 002 OTHER: 001

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TRUBACHEV, L.

Discussion at the Dneprovskii Aluminum Plant on the book "Electrometallurgy of aluminum" by A.I.Beliaev, M.B.Rapoport, and L.A.Firsanova. TSvet.met.27 no.3:71-76 My-Je '54. (MIRA 10:10)
(Aluminum--Electrometallurgy) (Beliaev, A.I.) (Rapoport, M.B.) (Firsanova, L.A.)

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S/094/60/000/005/001/003
E073/E535

9,2540 (1020,1048,1138)

AUTHORS: Krayniy, K. I., Polyakov, V. T. and Trubachev, B. V.

TITLE: Automatic Maintenance of the Voltage of a d.c. Generator by Means of a Saturation Choke

PERIODICAL: Promyshlennaya energetika, 1960, No.5, pp. 23-25

TEXT: The authors applied a saturation choke for maintaining a given voltage on a 75 kW, 1500 r.p.m., 440 V d.c. generator driven by an asynchronous motor. The generator is operating with non-uniform loads between 0 and 200 A, i.e. there are short duration over-loads by 40%. This causes sharp voltage variations which lead to temporary disorganization of the technological process. Without the saturation choke, the external characteristic shows a drop from a no-load voltage of about 400 V to about 260 V for a load of 220 A. Automatic maintenance of the voltage is effected by connecting into the excitation circuit a saturation choke with a positive feedback and connecting a selenium rectifier in series with the excitation winding (see Fig.2). First the regulator is set at no-load for 420 V by means of the resistance R_1 of the excitation circuit. With increasing load, the current intensity in the control winding OY will increase, the reactance

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Automatic Maintenance of the Voltage of a d.c. Generator by Means of a Saturation Choke

of the a.c. windings OA will decrease and the voltage on the selenium rectifier BC will increase. Thus, change in the rectifier voltage will correspond to the change in the load current and since the voltage of the rectifier superimposes on the voltage of the excitation winding, the voltage of the generator remains constant. With decreasing load, the voltage of the rectifier will drop and the voltage of the generator will remain unchanged. Accurate adjustment of the voltage at various loads is effected by varying the resistance $R_{ш}$ and the resistance R_{OC}, which is connected in series with the feedback winding OC. The further part of the paper is devoted to calculating the voltage boosting circuit, particularly to determining the data of the saturation chokes. There are 5 figures.

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Automatic Maintenance of the Voltage of a d.c. Generator by Means of a Saturation Choke

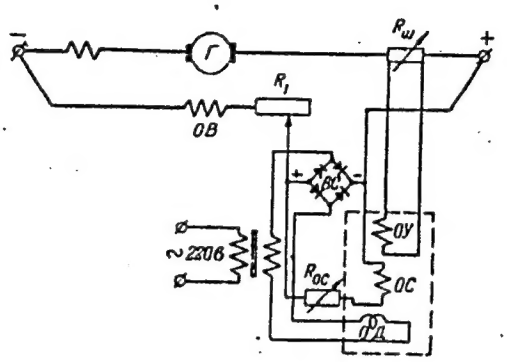

Рис. 2.

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30

TOPOTOB, V.N.; TRUBACHEV, O.N.; TOLSTOY, N.I., otv. red.; DYBO, V.A., red. izd-va; VOLKOVA, V.G., tekhn. red.; GOLUB', S.P., tekhn. red.

[Linguistic analysis of hydronyms for the upper Dnieper Valley] Lingvisticheskii analiz gidronimov Verkhnego Podneprov'ia. Moskva, Izd-vo Akad. nauk SSSR, 1962. 266 p. [Maps 1-13] Karty 1-13. (MIRA 15:7)

(Dnieper Valley--Names, Geographical)